UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

SCHEDULE 13G

(Rule 13d-102)

INFORMATION TO BE INCLUDED IN STATEMENTS FILED PURSUANT TO RULES 13d-1(b), (c), AND (d) AND AMENDMENTS THERETO FILED PURSUANT TO RULE 13d-2(b)

(Amendment No. 5)¹

Verastem, Inc.
(Name of Issuer)
Common Stock, \$0.0001 par value per share
(Title of Class of Securities)
92337C104
(CUSIP Number)
December 31, 2022
(Date of Event Which Requires Filing of this Statement)
Check the appropriate box to designate the rule pursuant to which this Schedule is filed:
□ Rule 13d-1(b)
⊠ Rule 13d-1(c)
□ Rule 13d-1(d)
The remainder of this cover page shall be filled out for a reporting person's initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter disclosures provided in prior cover page.
The information required on the remainder of this cover page shall not be deemed to be "filed" for the purpose of Section 18 of the Securities Exchange Act of 1934 ("Act") or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act

(however, see the Notes).

1	NAME OF REPORT	ING PERSON	
		Value Fund, L.P.	
2	CHECK THE APPRO	OPRIATE BOX IF A MEMBER OF A GROUP	(a) ⊠
			(b) □
3	SEC USE ONLY		
3	SEC USE ONLI		
4	CITIZENSHIP OR P	LACE OF ORGANIZATION	
	- ,		
NILLM DED OF	Delaware 5	SOLE VOTING POWER	
NUMBER OF SHARES	5	SOLE VOTING POWER	
BENEFICIALLY		0	
OWNED BY	6	SHARED VOTING POWER	
EACH			
REPORTING		11,193,509 (1)	
PERSON WITH	7	SOLE DISPOSITIVE POWER	
		0	
	8	SHARED DISPOSITIVE POWER	
		11,193,509 (1)	
9	AGGREGATE AMO	UNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	11,193,509 (1)		
10	CHECK BOX IF TH	E AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
11	PERCENT OF CLAS	SS REPRESENTED BY AMOUNT IN ROW (9)	
10	5.6% (1)	NO DEDCOM	
12	TYPE OF REPORTI	NG PERSUN	
	PN		

(1) Includes 1,071,810 Shares (as defined below) underlying certain Series A Preferred Stock (as defined below). The Series A Preferred Stock is subject to the Conversion A Limitation (as defined below).

1	NAME OF REPO	ORTING PERSON	
	BVF I GP I	LLC	
2	CHECK THE AP	PROPRIATE BOX IF A MEMBER OF A GROUP	(a) 🗵
			(b) 🗆
3	SEC USE ONLY		
4	CITIZENSHIP O	R PLACE OF ORGANIZATION	
	Delaware		
NUMBER OF	5	SOLE VOTING POWER	
SHARES			
BENEFICIALLY OWNED BY	6	0 SHARED VOTING POWER	
EACH	0	SHARED VOTING FOWER	
REPORTING		11,193,509 (1)	
PERSON WITH	7	SOLE DISPOSITIVE POWER	
		0	
	8	SHARED DISPOSITIVE POWER	
		11,193,509 (1)	
9	AGGREGATE A	MOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	11,193,509	(1)	
10	CHECK BOX IF	THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
11	PERCENT OF CI	LASS REPRESENTED BY AMOUNT IN ROW (9)	
	F CO/ (1)		
12	5.6% (1) TYPE OF REPOR	RTING PERSON	
1-			
	00		

Biotechnology Value Fund II, L.P. 2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) (b) (c) (b) (c) (c) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d		·		
2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP 3 SEC USE ONLY 4 CITIZENSHIP OR PLACE OF ORGANIZATION Delaware NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH 7 SOLE DISPOSITIVE POWER 0 SHARED DISPOSITIVE POWER 7,886,458 9 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 7,886,458 10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES 11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 3.9% 12 TYPE OF REPORTING PERSON	1	NAME OF REPOR	TING PERSON	
2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP 3 SEC USE ONLY 4 CITIZENSHIP OR PLACE OF ORGANIZATION Delaware NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH 7 SOLE DISPOSITIVE POWER 0 SHARED DISPOSITIVE POWER 7,886,458 9 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 7,886,458 10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES 11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 3.9% 12 TYPE OF REPORTING PERSON				
3 SEC USE ONLY 4 CITIZENSHIP OR PLACE OF ORGANIZATION Delaware NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH 7 SOLE DISPOSITIVE POWER 8 SHARED DISPOSITIVE POWER				
3 SEC USE ONLY	2	CHECK THE APPI	ROPRIATE BOX IF A MEMBER OF A GROUP	(a) ⊠
A CITIZENSHIP OR PLACE OF ORGANIZATION Delaware NUMBER OF SHARES BENEFICIALLY 0 SHARED VOTING POWER EACH REPORTING 7 SOLE DISPOSITIVE POWER 0 8 SHARED DISPOSITIVE POWER 7,886,458 9 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 7,886,458 10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES 11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 3.9% 12 TYPE OF REPORTING PERSON				(b) □
A CITIZENSHIP OR PLACE OF ORGANIZATION Delaware NUMBER OF SHARES BENEFICIALLY 0 SHARED VOTING POWER EACH REPORTING 7 SOLE DISPOSITIVE POWER 0 8 SHARED DISPOSITIVE POWER 7,886,458 9 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 7,886,458 10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES 11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 3.9% 12 TYPE OF REPORTING PERSON				
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH 7 SOLE DISPOSITIVE POWER 0 8 SHARED DISPOSITIVE POWER 7,886,458 9 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 7,886,458 10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES 11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 3.9% 12 TYPE OF REPORTING PERSON	3	SEC USE ONLY		
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH 7 SOLE DISPOSITIVE POWER 0 8 SHARED DISPOSITIVE POWER 7,886,458 9 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 7,886,458 10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES 11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 3.9% 12 TYPE OF REPORTING PERSON				
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BENEFICIALLY	NUMBER OF	5	SOLE VOTING POWER	
OWNED BY EACH REPORTING 7,886,458 PERSON WITH 7 SOLE DISPOSITIVE POWER 0 8 SHARED DISPOSITIVE POWER 7,886,458 9 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 7,886,458 10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES 11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 3.9% 12 TYPE OF REPORTING PERSON	SHARES			
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PERSON WITH 7 SOLE DISPOSITIVE POWER 0 8 SHARED DISPOSITIVE POWER 7,886,458 9 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 7,886,458 10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES 11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 3.9% 12 TYPE OF REPORTING PERSON	EACH			
8 SHARED DISPOSITIVE POWER 7,886,458 9 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 7,886,458 10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES 11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 3.9% 12 TYPE OF REPORTING PERSON	REPORTING		7,886,458	
8 SHARED DISPOSITIVE POWER 7,886,458 9 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 7,886,458 10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES 11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 3.9% 12 TYPE OF REPORTING PERSON	PERSON WITH	7	SOLE DISPOSITIVE POWER	
8 SHARED DISPOSITIVE POWER 7,886,458 9 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 7,886,458 10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES 11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 3.9% 12 TYPE OF REPORTING PERSON				
7,886,458 9 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 7,886,458 10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES 11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 3.9% 12 TYPE OF REPORTING PERSON			0	
9 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 7,886,458 10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES 11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 3.9% 12 TYPE OF REPORTING PERSON		8	SHARED DISPOSITIVE POWER	
9 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 7,886,458 10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES 11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 3.9% 12 TYPE OF REPORTING PERSON				
7,886,458 10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES 11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 3.9% 12 TYPE OF REPORTING PERSON			7,886,458	
10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES 11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 3.9% 12 TYPE OF REPORTING PERSON	9	AGGREGATE AM	OUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES 11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 3.9% 12 TYPE OF REPORTING PERSON				
11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 3.9% 12 TYPE OF REPORTING PERSON		7,886,458		
11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 3.9% 12 TYPE OF REPORTING PERSON	10		HE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
3.9% TYPE OF REPORTING PERSON			• •	
3.9% TYPE OF REPORTING PERSON				
3.9% TYPE OF REPORTING PERSON	11	PERCENT OF CLA	ASS REPRESENTED BY AMOUNT IN ROW (9)	
12 TYPE OF REPORTING PERSON			• • • • • • • • • • • • • • • • • • • •	
		3.9%		
DN	12	TYPE OF REPORT	ING PERSON	
DN				
111		PN		

	 		
1	NAME OF REPOR	TING PERSON	
	BVF II GP L		
2	CHECK THE APP	ROPRIATE BOX IF A MEMBER OF A GROUP	(a) ⊠
			(b) □
3	SEC USE ONLY		
		N. 107 OF OR CANALATION.	
4	CITIZENSHIP OR	PLACE OF ORGANIZATION	
	Deles seus		
NUMBER OF	Delaware 5	SOLE VOTING POWER	
SHARES	5	SOLE VOTING POWER	
BENEFICIALLY		0	
OWNED BY	6	SHARED VOTING POWER	
EACH		STRIKED VOTINGTOWER	
REPORTING		7,886,458	
PERSON WITH	7	SOLE DISPOSITIVE POWER	
		0	
	8	SHARED DISPOSITIVE POWER	
		7,886,458	
9	AGGREGATE AM	OUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	= 000 45 -		
10	7,886,458	A CODE OF A MOUNT BY DOLL OF THE OFFICE CERTIFICATION	
10	CHECK BOX IF T	HE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
11	DEDCENT OF CL	ASS REPRESENTED BY AMOUNT IN ROW (9)	
11	PERCENT OF CL	ASS REPRESENTED BY AMIOUNT IN ROW (9)	
	3.9%		
12	TYPE OF REPORT	TING PERSON	·
14	I I I I OI KLI OK	IIIO I DIGOIT	
	00		

	 		 ,
1	NAME OF REPO	RTING PERSON	
		gy Value Trading Fund OS LP	
2	CHECK THE API	PROPRIATE BOX IF A MEMBER OF A GROUP	(a) 🗵
			(b) □
			` '
3	SEC USE ONLY		
4	CITIZENSHIP OF	R PLACE OF ORGANIZATION	
•	CITIZEI (OIIII OI	The or ordinal more	
	Cayman Isla	nds	
NUMBER OF	5	SOLE VOTING POWER	
SHARES	J	SOLE VOTINGTOWER	
BENEFICIALLY		0	
OWNED BY	6	SHARED VOTING POWER	
EACH	О	SHARED VOTING POWER	
		70.4.622	
REPORTING	_	784,622	
PERSON WITH	7	SOLE DISPOSITIVE POWER	
		0	
	8	SHARED DISPOSITIVE POWER	
		784,622	
9	AGGREGATE AN	MOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	784,622		
10	CHECK BOX IF	THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
11	PERCENT OF CL	ASS REPRESENTED BY AMOUNT IN ROW (9)	
		• • • • • • • • • • • • • • • • • • • •	
	Less than 19	6	
12	TYPE OF REPOR	TING PERSON	
	PN		
	==:		

	-		
1	NAME OF REPOI	RTING PERSON	
	BVF Partner		
2	CHECK THE APP	ROPRIATE BOX IF A MEMBER OF A GROUP	(a) ⊠
			(b) □
3	SEC USE ONLY		
4	CITIZENSHIP OF	PLACE OF ORGANIZATION	
	Cayman Isla	nds	
NUMBER OF	5	SOLE VOTING POWER	
SHARES			
BENEFICIALLY		0	
OWNED BY	6	SHARED VOTING POWER	
EACH			
REPORTING		784,622	
PERSON WITH	7	SOLE DISPOSITIVE POWER	
	•		
		0	
	8	SHARED DISPOSITIVE POWER	
		784,622	
9	AGGREGATE AM	OUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	784,622		
10		THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
11	PERCENT OF CL	ASS REPRESENTED BY AMOUNT IN ROW (9)	
	Less than 1%		
12	TYPE OF REPOR		
	CO		

1	NAME OF REPOR	TING PERSON	
	BVF GP Hold	lings LLC	
2		ROPRIATE BOX IF A MEMBER OF A GROUP	(a) ⊠ (b) □
3	SEC USE ONLY		
4	CITIZENSHIP OR	PLACE OF ORGANIZATION	
	Delaware		
NUMBER OF SHARES BENEFICIALLY	5	SOLE VOTING POWER 0	
OWNED BY EACH REPORTING	6	SHARED VOTING POWER 19,079,967 (1)	
PERSON WITH	7	SOLE DISPOSITIVE POWER 0	
	8	SHARED DISPOSITIVE POWER 19,079,967 (1)	
9	AGGREGATE AM0 19,079,967 (1	OUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
10		HE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
11	PERCENT OF CLA 9.5% (1)	ASS REPRESENTED BY AMOUNT IN ROW (9)	
12	TYPE OF REPORT	ING PERSON	

1	NAME OF REPORT	ING PERSON	
_			
	BVF Partners L	P.	
2	CHECK THE APPRO	OPRIATE BOX IF A MEMBER OF A GROUP	(a) 🗵
			(b) □
3	SEC USE ONLY		
4	CITIZENSHIP OR P	LACE OF ORGANIZATION	
	Delaware		
NUMBER OF	5	SOLE VOTING POWER	
SHARES			
BENEFICIALLY OWNED BY	6	0 SHARED VOTING POWER	
EACH	O	SHAKED VOTING FOWER	
REPORTING		20,094,466 (1)	
PERSON WITH	7	SOLE DISPOSITIVE POWER	
		0	
	8	SHARED DISPOSITIVE POWER	
		20,094,466 (1)	
9	AGGREGATE AMO	UNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	20,094,466 (1)		
10	CHECK BOX IF THE	E AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
11	PERCENT OF CLAS	SS REPRESENTED BY AMOUNT IN ROW (9)	
	CDITTO		
	9.99% (1)		
12	TYPE OF REPORTI	NG PERSON	
	DNI IA		
	PN, IA		

1	NAME OF REPO	RTING PERSON	
	BVF Inc.		
2	CHECK THE API	PROPRIATE BOX IF A MEMBER OF A GROUP	(a) ⊠
			(b) □
3	SEC USE ONLY		
4	CITIZENSHIP OF	R PLACE OF ORGANIZATION	
	Delaware	L sov B viornica povino	
NUMBER OF	5	SOLE VOTING POWER	
SHARES			
BENEFICIALLY		0	
OWNED BY EACH	6	SHARED VOTING POWER	
REPORTING		20,094,466 (1)	
PERSON WITH	7	SOLE DISPOSITIVE POWER	
FERSON WIIII	/	SOLE DISPOSITIVE POWER	
		0	
	8	SHARED DISPOSITIVE POWER	
		STRIKES SIST COTTIVE TOWER	
		20,094,466 (1)	
9	AGGREGATE AN	MOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	20,094,466 ((1)	
10	CHECK BOX IF	THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
11	PERCENT OF CL	ASS REPRESENTED BY AMOUNT IN ROW (9)	
	9.99% (1)		
12	TYPE OF REPOR	TING PERSON	
	CO		

1	NAME OF REPORT	ING PERSON	
	Mark N. Lamp	ert	
2	CHECK THE APPRO	OPRIATE BOX IF A MEMBER OF A GROUP	(a) ⊠ (b) □
3	SEC USE ONLY		
4	CITIZENSHIP OR P	LACE OF ORGANIZATION	
	United States		
NUMBER OF SHARES	5	SOLE VOTING POWER	
BENEFICIALLY		0	
OWNED BY EACH	6	SHARED VOTING POWER	
REPORTING		20,094,466 (1)	
PERSON WITH	7	SOLE DISPOSITIVE POWER	
	_	0	
	8	SHARED DISPOSITIVE POWER	
	A CODECATE AND	20,094,466 (1)	
9	AGGREGATE AMO	UNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
10	20,094,466 (1)	E ACCRECATE AMOUNT IN DOW! (0) EVOLVIDES CERTAIN SHARES	
10	CHECK BOX IF TH	E AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
11	DEDCENT OF CLAS	EC DEDDECENTED DV AMOUNT IN DOW (0)	
11		SS REPRESENTED BY AMOUNT IN ROW (9)	
12	9.99% (1) TYPE OF REPORTI	NC DEDSON	
12	TIPE OF REPORTS	NG FERSON	
	IN		

Item 1(a). Name of Issuer:

Verastem, Inc., a Delaware corporation (the "Issuer").

Item 1(b). Address of Issuer's Principal Executive Offices:

117 Kendrick Street, Suite 500 Needham, MA 02494

Item 2(a). Name of Person Filing

Item 2(b). Address of Principal Business Office or, if None, Residence

Item 2(c). Citizenship

Biotechnology Value Fund, L.P. ("BVF") 44 Montgomery St., 40th Floor San Francisco, California 94104 Citizenship: Delaware

BVF I GP LLC ("BVF GP") 44 Montgomery St., 40th Floor San Francisco, California 94104 Citizenship: Delaware

Biotechnology Value Fund II, L.P. ("BVF2") 44 Montgomery St., 40th Floor San Francisco, California 94104 Citizenship: Delaware

BVF II GP LLC ("BVF2 GP") 44 Montgomery St., 40th Floor San Francisco, California 94104 Citizenship: Delaware

Biotechnology Value Trading Fund OS LP ("Trading Fund OS") PO Box 309 Ugland House Grand Cayman, KY1-1104 Cayman Islands Citizenship: Cayman Islands

BVF Partners OS Ltd. ("Partners OS") PO Box 309 Ugland House Grand Cayman, KY1-1104 Cayman Islands Citizenship: Cayman Islands

BVF GP Holdings LLC ("BVF GPH") 44 Montgomery St., 40th Floor San Francisco, California 94104 Citizenship: Delaware

BVF Partners L.P. ("Partners") 44 Montgomery St., 40th Floor San Francisco, California 94104 Citizenship: Delaware

BVF Inc. 44 Montgomery St., 40th Floor San Francisco, California 94104 Citizenship: Delaware

Mark N. Lampert ("Mr. Lampert") 44 Montgomery St., 40th Floor San Francisco, California 94104 Citizenship: United States

Each of the foregoing is referred to as a "Reporting Person" and collectively as the "Reporting Persons."

Item 2(d). Title of Class of Securities:

Common Stock, \$0.0001 par value per share (the "Shares").

Item 2(e). CUSIP Number:

92337C104

Item 3. If This Statement is Filed Pursuant to Rule 13d-1(b), or 13d-2(b) or (c), Check Whether the Person Filing is a:

	/x/	Not applicable.
(a)	//	Broker or dealer registered under Section 15 of the Exchange Act.
(b)	//	Bank as defined in Section 3(a)(6) of the Exchange Act.
(c)	//	Insurance company as defined in Section 3(a)(19) of the Exchange Act.
(d)	//	Investment company registered under Section 8 of the Investment Company Act.
(e)	//	An investment adviser in accordance with Rule 13d-1(b)(1)(ii)(E).
(f)	//	An employee benefit plan or endowment fund in accordance with Rule 13d-1(b)(1)(ii)(F).
(g)	//	A parent holding company or control person in accordance with Rule 13d-1(b)(1)(ii)(G).
(h)	//	A savings association as defined in Section 3(b) of the Federal Deposit Insurance Act.
(i)	//	A church plan that is excluded from the definition of an investment company under Section $3(c)(14)$ of the Investment Company Act.
(j)	//	A non-U.S. institution in accordance with Rule 13d-1(b)(1)(ii)(J).
(k)	//	Group, in accordance with Rule $13d-1(b)(1)(ii)(K)$. If filing as a non-U.S. institution in accordance with Rule $13d-1(b)(1)(ii)(J)$, please specify the type of institution:

Item 4. Ownership:

(a) Amount beneficially owned:

The Reporting Persons hold 1,000,000 shares of Series A Convertible Preferred Stock (the "Series A Preferred Stock"), convertible for an aggregate of 10,000,000 Shares. Each share of the Series A Preferred Stock is convertible into 10 Shares. A holder of the Series A Preferred Stock shall not have the right to convert any portion of the Series A Preferred Stock held by it to the extent that, after giving effect to such conversion, such holder, together with such holder's affiliates and any other person whose beneficial ownership of Shares would be aggregated with such holder's Shares for purposes of Section 13(d) or Section 16 of the Securities Exchange Act of 1934, as amended, including any "group" of which the holder is a member, would beneficially own a number of Shares in excess of 9.99% of the number of Shares outstanding immediately after giving effect to such conversion (the "Conversion A Limitation"). As of the close of business on December 31, 2022, the Conversion A Limitation limits the aggregate conversion of the Series A Preferred Stock held by the Reporting Persons to 1,071,810 out of the 10,000,000 Shares underlying the Series A Preferred Stock owned by the Reporting Persons in the aggregate. In providing beneficial ownership described herein, the Reporting Persons have assumed that certain of the Series A Preferred Stock owned by BVF convertible into 1,071,810 Shares would be converted and the remaining Series A Preferred Stock held by the Reporting Persons would not be converted due to the Conversion A Limitation.

As of the close of business on December 31, 2022, (i) BVF beneficially owned 11,193,509 Shares, including 1,071,810 Shares underlying certain Series A Preferred Stock held by it and excluding 4,351,190 Shares underlying the remaining Series A Preferred Stock held by it, (ii) BVF2 beneficially owned 7,886,458 Shares, excluding 3,829,000 Shares underlying certain Series A Preferred Stock held by it, and (iii) Trading Fund OS beneficially owned 784,622 Shares, excluding 535,000 Shares underlying certain Series A Preferred Stock held by it.

BVF GP, as the general partner of BVF, may be deemed to beneficially own the 11,193,509 Shares beneficially owned by BVF.

BVF2 GP, as the general partner of BVF2, may be deemed to beneficially own the 7,886,458 Shares beneficially owned by BVF2.

Partners OS, as the general partner of Trading Fund OS, may be deemed to beneficially own the 784,622 Shares beneficially owned by Trading Fund OS.

BVF GPH, as the sole member of each of BVF GP and BVF2 GP, may be deemed to beneficially own the 19,079,967 Shares beneficially owned in the aggregate by BVF and BVF2.

Partners, as the investment manager of BVF, BVF2 and Trading Fund OS, and the sole member of Partners OS, may be deemed to beneficially own the 20,094,466 Shares beneficially owned in the aggregate by BVF, BVF2 and Trading Fund OS and held in a certain Partners managed account (the "Partners Managed Account"), including 229,877 Shares held in the Partners Managed Account and excluding 213,000 Shares underlying 21,300 shares of Series A Preferred Stock held in the Partners Managed Account.

BVF Inc., as the general partner of Partners, may be deemed to beneficially own the 20,094,466 Shares beneficially owned by Partners.

Mr. Lampert, as a director and officer of BVF Inc., may be deemed to beneficially own the 20,094,466 Shares beneficially owned by BVF Inc.

The foregoing should not be construed in and of itself as an admission by any Reporting Person as to beneficial ownership of any Shares owned by another Reporting Person. BVF GP disclaims beneficial ownership of the Shares beneficially owned by BVF. BVF2 GP disclaims beneficial ownership of the Shares beneficially owned by Trading Fund OS. BVF GPH disclaims beneficial ownership of the Shares beneficially owned by BVF and BVF2. Each of Partners, BVF Inc. and Mr. Lampert disclaims beneficial ownership of the Shares beneficially owned by BVF, BVF2 and Trading Fund OS and held in the Partners Managed Account, and the filing of this statement shall not be construed as an admission that any such person or entity is the beneficial owner of any such securities.

(b) Percent of class:

The following percentages are based upon a denominator that is the sum of (i) 200,090,850 Shares outstanding following the exchange of 10,000,000 Shares owned by the Reporting Persons for 1,000,000 shares of Series A Preferred Stock, as disclosed in the Issuer's Current Report on Form 8-K filed with the Securities and Exchange Commission on November 7, 2022, and (ii) 1,071,810 Shares underlying certain Series A Preferred Stock held by the Reporting Persons, as applicable.

As of the close of business on December 31, 2022, (i) BVF beneficially owned approximately 5.6% of the outstanding Shares, (ii) BVF2 beneficially owned approximately 3.9% of the outstanding Shares, (iii) Trading Fund OS beneficially owned less than 1% of the outstanding Shares, (iv) BVF GP may be deemed to beneficially own approximately 5.6% of the outstanding Shares, (v) BVF2 GP may be deemed to beneficially own approximately 3.9% of the outstanding Shares, (vi) Partners OS may be deemed to beneficially own less than 1% of the outstanding Shares, (vii) BVF GPH may be deemed to beneficially own approximately 9.5% of the outstanding Shares and (viii) each of Partners, BVF Inc. and Mr. Lampert may be deemed to beneficially own approximately 9.99% of the outstanding Shares (less than 1% of the outstanding Shares are held in the Partners Managed Account).

- (c) Number of shares as to which such person has:
- (i) Sole power to vote or to direct the vote

See Cover Pages Items 5-9.

(ii) Shared power to vote or to direct the vote

See Cover Pages Items 5-9.

(iii) Sole power to dispose or to direct the disposition of

See Cover Pages Items 5-9.

(iv) Shared power to dispose or to direct the disposition of

See Cover Pages Items 5-9.

Item 5. Ownership of Five Percent or Less of a Class.

Not Applicable.

Item 6. Ownership of More than Five Percent on Behalf of Another Person.

BVF GP, BVF GPH, Partners, BVF Inc. and Mr. Lampert share voting and dispositive power over the Shares beneficially owned by BVF. BVF GPH, Partners, BVF Inc. and Mr. Lampert share voting and dispositive power over the Shares beneficially owned by BVF2. Partners, BVF Inc. and Mr. Lampert share voting and dispositive power over the Shares beneficially owned by Trading Fund OS and held in the Partners Managed Account.

Item 7. Identification and Classification of the Subsidiary That Acquired the Security Being Reported on by the Parent Holding Company or Control Person.

Not Applicable.

Item 8. Identification and Classification of Members of the Group.

See Exhibit 99.1 to Amendment No. 1 to the Schedule 13G filed by the Reporting Persons with the Securities and Exchange Commission on February 14, 2020.

Item 9. Notice of Dissolution of Group.

Not Applicable.

Item 10. Certifications.

By signing below each of the undersigned certifies that, to the best of its knowledge and belief, the securities referred to above were not acquired and are not held for the purpose of or with the effect of changing or influencing the control of the issuer of the securities and were not acquired and are not held in connection with or as a participant in any transaction having that purpose or effect.

SIGNATURE

After reasonable inquiry and to the best of his knowledge and belief, each of the undersigned certifies that the information set forth in this statement is true, complete and correct.

Dated: February 14, 2023

BIOTECHNOLOGY VALUE FUND, L.P.

By: BVF I GP LLC, its general partner

By: /s/ Mark N. Lampert

Mark N. Lampert Chief Executive Officer

BVF I GP LLC

By: /s/ Mark N. Lampert

Mark N. Lampert

Chief Executive Officer

BIOTECHNOLOGY VALUE FUND II, L.P.

By: BVF II GP LLC, its general partner

By: /s/ Mark N. Lampert

Mark N. Lampert Chief Executive Officer

BVF II GP LLC

By: /s/ Mark N. Lampert

Mark N. Lampert

Chief Executive Officer

BVF PARTNERS OS LTD.

By: BVF Partners L.P., its sole member

By: BVF Inc., its general partner

By: /s/ Mark N. Lampert

Mark N. Lampert President BIOTECHNOLOGY VALUE TRADING FUND OS LP

By: BVF Partners L.P., its investment manager

By: BVF Inc., its general partner

By: /s/ Mark N. Lampert

Mark N. Lampert

President

BVF GP HOLDINGS LLC

By: /s/ Mark N. Lampert

Mark N. Lampert

Chief Executive Officer

BVF PARTNERS L.P.

By: BVF Inc., its general partner

By: /s/ Mark N. Lampert

Mark N. Lampert

President

BVF INC.

By: /s/ Mark N. Lampert

Mark N. Lampert

President

/s/ Mark N. Lampert

MARK N. LAMPERT

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